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virus boot disk network drivers

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### Method and apparatus for remotely booting a client computer from a **network** by emulating remote boot chips

D Sposato - US Patent 6,463,530, 2002 - Google Patents

... a **boot** code loader from a nonvolatile, read/write memory, such as a diskette or hard **disk**. The **boot** code loader executes to load a control program from the diskette, and the control ... The set of programs and/or device **drivers** communicate with a **network** server to retrieve a **boot** ...

[Cited by 31](#) - [Related articles](#) - [All 2 versions](#)

### Generic remote **boot** for networked workstations by creating local bootable code image

TK Basu - US Patent 5,452,454, 1995 - Google Patents

... le **DISK** .10 6 **DISK** VMS SERVER I8.J REESTABLISH **NETWORK** j ENVIRONMENT FIG. If B **DISK** ,10 16 **DISK** Page 4. ... 19, 1995 Sheet 6 of 22 Floppy Remote (Generic) **Boot** •^~\ Read CONFIGDATOff thediskette and find out the MAC **driver** name from the CONFIG.DAT. ...

[Cited by 117](#) - [Related articles](#) - [All 4 versions](#)

### Bootting a computer system from a **network**

CD McCall... - US Patent 6,317,826, 2001 - Google Patents

... The bootstrap 17 in turn is programmed to download a **boot** image 18 from the server via the **network** 20. ... The client may alternatively include a floppy **disk** drive (not shown) and the **boot** image 18 could be transferred onto the floppy **disk** avoiding the necessity for a RAM ...

[Cited by 50](#) - [Related articles](#) - [All 2 versions](#)

### Method and apparatus for controlling **network** and workstation access prior to workstation **boot**

SM Chang - US Patent 5,444,850, 1995 - Google Patents

... If not, it could remove the **virus** SMA via a customer application programming interface and restore the **boot** ... in this memory is the address of the **network driver** program on the workstation **disk** drive or ... It is needed in a typical DOS system since the **boot** PROM can only provide 8K ...

[Cited by 88](#) - [Related articles](#) - [All 6 versions](#)

### Remote bootstrapping a node over communication link by initially requesting remote storage access program which emulates local **disk** to load other programs

JE Flaherty... - US Patent 5,146,568, 1992 - Google Patents

... ASSERTION i MODIFICATION OF MEMORY SIZE COPY MINIMUM-**BOOT** INTO HIGH - - - -122 MEMORY i CHAIN MINIMUM **BOOT** CONTROL - - - -124 ... cessible to the **network**. ... of The operating system is generally too large and com- requesting a file on a specified **disk** on a ...

[Cited by 68](#) - [Related articles](#) - [All 4 versions](#)

### Xen and the art of virtualization

P Barham, B Dragovic, K Fraser, S Hand... - Proceedings of the ..., 2003 - portal.acm.org

... but still in progress; it can execute a number of user-space applications from a RAM **disk**, but it ... virtual **network** virtual blockdev virtual x86 CPU virtual phy mem ... due to the presence of legacy 16-bit emulation code and the need for a somewhat different **boot**-loading mechanism. ...

[Cited by 2541](#) - [Related articles](#) - [BL Direct](#) - [All 223 versions](#)

Method and system for transitioning the **network** mode of a workstation

JC Dunn... - US Patent 5,701,491, 1997 - Google Patents

... HIMEM.SYS RAMDRIVE.SYS IFSHLP.SYS NET.EXE NET.MSG NETH.MSG SNAPSHOT.EXE  
 NDSIHL.SYS PROTMAN.DOS PROTMAN.EXE NDIS 2 NET CARD DRV R NETSTART.BAT  
 SYSTEM.DAT (PARTIAL) SYSTEM.INI **NETWORK**.INI **BOOT DISK** MACHINE'S HOME ...

Cited by 15 - Related articles - All 2 versions

Apparatus for providing a single image of an I/O subsystem in a geographically dispersed comp system

JA Dziadosz, JD Penaranda... - US Patent 5,832,222, 1998 - Google Patents

... 16 12b 24^ **NETWORK** ADAPTOR SWITCH-OVER SOFTWARE **NETWORK DRIVER** /±r 22 ...  
 SOFTWARE DISTRIBUTED DATA MODEL SOFTWARE PHYSICAL DEVICE **DRIVER** L« ... 216  
 r l18 / A DISTRIBUTED DATA DONFIGURATION / ^214 ( **BOOT DISK** \ SECONDARY **BOOT** ...

Cited by 52 - Related articles - All 2 versions

Method and system for mounting a system partition as a logical drive while an operating system operational by modifying a partition table

RR Gaudet - US Patent 5,974,517, 1999 - Google Patents

... US Patent Oct. 26, 1999 sheet 7 of 7 5,974,517 I/O MANAGER CACHE MANAGER 700 FILE  
 SYSTEM **DRIVERS** 702 **NETWORK DRIVERS** 704 DEVICE **DRIVERS** 706 FIG. 7 ... One  
 customization a hardware vendor can provide is a system partition on a **boot-up disk** drive of ...

Cited by 17 - Related articles - All 2 versions

**Driver** bundle including a compressed, self-extracting, executable **driver** for the host processor an adapter **driver** for the processor of a **network** adapter card

GB Hoese, SC Johnson... - US Patent 5,819,115, 1998 - Google Patents

... In an alternative embodiment, the computer system 102 is a diskless workstation which does  
 not include the floppy **disk** drive 108, the hard **disk** drive 112, the CD ... Instead, the computer system  
 102 includes a **network** interface card (NIC) 210 (FIG. 2) with a **boot** ROM 314 (FIG. ...

Cited by 27 - Related articles - All 2 versions

Technique for reliable **network** booting of an operating system to a client computer

Y Klimenko - US Patent 5,974,547, 1999 - Google Patents

... Based on client O/S resources then available when, during the **boot** process, the client requests  
 a local hard **disk** access to a particular sector, the procedure will re-direct that request, to the  
**network** file server, through a **network driver** kernel in the client O/S rather than through ...

Cited by 152 - Related articles - All 2 versions

**Disk** operating system backup and recovery system

JK McGill III, D Abele, LL Colman... - US Patent ..., 1995 - Google Patents

... at least one high capac- ity storage device 16, such as a non-volatile magnetic media hard **disk**  
 drive, which stores files necessary to start (**boot**) and operate the workstation. These files include  
 operating 55 system files 18, system configuration files 20, device **driver** files 22, and ...

Cited by 133 - Related articles - All 2 versions

'Autoinstall for NT: Complete NT Installation over the **Network**

R Fulmer... - Usenix, Large Installation System Administration of ..., 1998 - unix.org

... We wanted support for multiple **network** cards on one **disk** but the original floppy, which was based  
 on Windows 95's DOS, didn't have enough space to fit everything we needed. ... First, we switched  
 from Windows 95 to an MS-DOS 6.22 **boot** floppy. It had smaller **boot** files. ...

Cited by 6 - Related articles - All 7 versions

Automatic development of operating system **boot** image

WC Crosswy, DL Barron, DW Abmayr... - US Patent ..., 1994 - Google Patents

... has been generated for certain higher level func- In this manner a configured **boot** image of ... while

the hard **disk** 40 may be a low to medium performance hard **disk** provided for ... As yet another example, a **network** interconnection controller (NIC) 58 may be provided in one of the ...

[Cited by 111](#) - [Related articles](#) - [All 4 versions](#)

### The FLUX OS toolkit: Reusable components for OS implementation

B Ford, K Van Maren, J Lepreau... - ... Systems, 1997., The ..., 2002 - [ieeexplore.ieee.org](#)  
... OS toolkit, writing a "Hello World" OS kernel that boots from standard **boot** loaders is ... an address map manager, a minimal C library, memory allocation debugging, **disk** partitioning, file ... **drivers**, the NetBSD Fast File System, and the FreeBSD and x-kernel **network** protocol stacks. ...

[Cited by 48](#) - [Related articles](#) - [All 9 versions](#)

### Method for the hot add of a **network** adapter on a system including a dynamically loaded adapt **driver**

WA Wallach, M Khalili, M Mahalingam... - US Patent ..., 1999 - Google Patents  
... users to replace failed components, upgrade outdated components, and add new functionality, such as new **network** interfaces, **disk** interface adapters ... 6, 1999 Sheet 14 of 19 INITIALIZATION PROCESS OF DEVICE **DRIVERS** AT **BOOT** TIME UNDER WINNT -1200 ...

[Cited by 102](#) - [Related articles](#) - [All 4 versions](#)

### Method and system for the interception and control of the computer **boot** process

KJ Turpin, LK Stephens... - US Patent 5,764,593, 1998 - Google Patents  
... The preferred embodiment of the that the next **boot** process should go through the automation ... on the first hard lation 101 populates the automation partition with a com- 45 **disk** 307 are ... partitions." If no mon operating system (such as DOS), local area **network** "bootable partition ...

[Cited by 32](#) - [Related articles](#) - [All 2 versions](#)

### [PDF] Developing CAN based networks on RT-Linux

P Mendoza... - IEEE, 2001 - [polaris.dit.upm.es](#)  
... This kernel includes the **network drivers** and Flash **disk drivers**. ... The Flash device can be configured to perform with the RAM **disk** or with the Flash file system configurations. B. - Loader and initialization programs.- Linux provides some tools to **boot** up the system, one of them is ...

[Cited by 7](#) - [Related articles](#) - [View as HTML](#) - [All 6 versions](#)

### **Network** enhanced BIOS enabling remote management of a computer without a functioning operating system

Y Rakavy, I Anderson, A Garsten, J Roche... - US Patent ..., 1999 - Google Patents  
... If the larger program is properly loaded into memory the **boot** program passes control to it. ... 5,978,912 3 4 3.11, include the ability to load installable device **drivers** communicating with a computer coupled to a **network** from **disk** when the operating system is booted up. ...

[Cited by 85](#) - [Related articles](#) - [All 6 versions](#)

### PC Administration Tools: Using Linux to Manage Personal Computers

J Trocki - Proceedings of the 10th USENIX conference on ..., 1996 - [usenix.org](#)  
... **Network drivers** for several adapter models used on site are compiled into the kernel ... advantage of portability between machines, and does not require software to be installed on the client **disk**. ... for a complete system on a single floppy, so the first priority during the **boot** process is ...

[Cited by 3](#) - [Related articles](#) - [All 9 versions](#)

### Method for automatically retrieving and installing device **drivers** across a **network**

HA Fleming III - US Patent 6,473,854, 2002 - Google Patents  
... INTERFACE 103 COMPUTER SYSTEM 108 OPERATING SYSTEM 109 DEFAULT **DRIVER** 113 **BOOT** CODE 110 ... apparatus for automatically retrieving and installing software device driv- ers across a **network**. ... in the operating system or is alternatively loaded from a **disk** that is ...

[Cited by 14](#) - [Related articles](#) - [All 2 versions](#)

System and method for binding a virtual device **driver** to a **network driver** interface

M Mohammed... - US Patent 6,157,965, 2000 - Google Patents

... access memory and other, non-volatile, data storage units such as read-only memory or magnetic **disk** media. ... Corporation entitled Microsoft® Developer's **Network** Library (1996), incorporated herein by reference, and in Dhawan, Sanjay, **Network-** ing Device **Drivers**, ch. ...

Cited by 59 - Related articles - All 2 versions

Building a self-contained auto-configuring Linux system on an iso9660 filesystem

K Knopper - Proceedings of the 4th Annual Linux Showcase and ..., 2000 - usenix.org

... The most common PCI cards (**network**, sound, SCSI) are auto- detected, **drivers** are loaded and mice, modems, CD-Rom devices, CD-Writers etc. ... 3. Clean up **boot disk** (only 50 bytes or so left), make insmod a builtin function of the initial shell. ...

Cited by 26 - Related articles - All 1146 versions

Apparatus for automatically retrieving and installing device **drivers** across a **network**

HA Fleming - US Patent App. 10/185,514, 2002 - Google Patents

... INTERFACE 103 COMPUTER SYSTEM 108 OPERATING SYSTEM 109 DEFAULT **DRIVER** 113 **BOOT** CODE 110 ... apparatus for automatically retrieving and installing software device driv- ers across a **network**. ... in the operating system or is alternatively loaded from a **disk** that is ...

Cited by 14 - Related articles - All 4 versions

[PDF] Building a wireless community **network** in the Netherlands

R van Drunen, DW van Gulik, J Kooihaas... - USENIX/Freenix ..., 2003 - usenix.org

... The latter is used during the initial **boot** as a staging ground for the actual install. ... All hardware will be detected, a reformat of the hard **disk** is done and the node software is ... As the rst **network** interface on the server provides Internet connectivity, the second nic offers a NFS, an ...

Cited by 32 - Related articles - All 14 versions

[HTML] COMPONENT ARCHITECTURES FOR TRUSTED NETWORK'

J Epstein, G Grossman... - National Information Systems ..., 1996 - books.google.com

... As part of the **boot**, the host processor may attempt to perform a NetWare login by ... The first release of the Assure EC software includes a redirector and **network** device **driver** for MS ... the operating system must be able to operate on a diskless workstation, since the **disk** attached to ...

Cited by 3 - Related articles - All 2 versions

[PDF] Automated installation of Linux systems using YaST

D Hohndel... - Proceedings of the 13th USENIX conference ..., 1999 - usenix.org

... customized kernel that includes the **drivers** for the hardware that may be necessary during the install (which usually means the **network** card and the adapters that connect to the hard disks and in some cases the CD) has to be installed on a normal SuSE Linux **boot disk** in order ...

Cited by 2 - Related articles - View as HTML - All 12 versions

**Disk** drive which provides a secure **boot** of a host computer system from a protected area of a

CW Frank Jr... - US Patent 6,546,489, 2003 - Google Patents

... Aside from **virus** attacks, it is possible that inadvertent corruption of **disk** data can prevent a proper **boot** of the computer system. This can be caused by user mistakes or by rogue applications which fail to abide by conventions or operating system safeguards. ...

Cited by 13 - Related articles - All 2 versions

Conserving **disk** energy in **network** servers

EV Carrera, E Pinheiro... - Proceedings of the 17th ..., 2003 - portal.acm.org

... The workload has a large fraction of **disk** writes (30 ... We **boot** the server machine with the full main memory for the proxy experiments, but the byte hit rate in the memory cache is only 4 ... These are the extremes of the range of utilizations we consider appropriate for **network** servers. ...

Cited by 197 - Related articles - All 28 versions

### Extensible bios for **boot** support of devices on multiple hierarchical buses

Jl Garney - US Patent 5,854,905, 1998 - Google Patents

... Code 500 CPU, Memory and Northbridge Initialization Code 510 Southbridge Initialization Code 520 **Boot** Device ID, Selection and Policy Management Code PCI Bridge **Driver** Code 580 Video Expansion BIOS 590 **Network** Expansion BIOS 595 Hard **Disk Driver** Code 540 ...

Cited by 52 - [Related articles](#) - [All 2 versions](#)

### [PDF] Beowulf anytime for evolutionary computation'

EA Wollesen, N Krakowiak... - Late breaking papers at ..., 1999 - eecs.umich.edu

... For instructions on how to make a Red Hat Linux **boot disk**, see the link to the Red ... the master node's home partition added to the list of drives from Red Hat's **Disk** Druid utility. ... More information about **network drivers** and Linux can be found on the Linux **Network Drivers** web- site ...

Cited by 1 - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

### System and method for prevention of **boot** storms in a computer **network**

A Abbondanzio, WW Buchanan, S Chu... - US Patent App. 10/ ..., 2002 - Google Patents

... computer example above, the oper- ating system image was stored locally on the hard **disk** drive of the computer, an arrangement that can be described as a "local **boot**" system. In a **network** of a plurality of comput- ers, computer servers, or other data processing equipment, it ...

Cited by 2 - [Related articles](#) - [All 3 versions](#)

### Interface for multiplexing and reformatting information transfer between device **driver** programs a **network** application program which only accepts information in a ...

JM Hauck, PH McCann, JR Terrell, BJ Staff... - US Patent ..., 2000 - Google Patents

... RUN **DISK** CHECKING- ROUTINE ON THE IDE AND SCSI HDD'S, AND STORE RESULTS. ... START THE **NETWORK** SERVER SOFTWARE 99 101 ... US Patent 6,026,454 Feb.15, 2000 Sheet 6 of 10 **BOOT** INTERRUPT PCMCIA **BOOT** CARD COPY OPERATING SYSTEM FILES ...

Cited by 12 - [Related articles](#) - [All 2 versions](#)

### A linux-based lab for operating systems and **network** courses

R Chapman... - Linux Journal, 1997 - portal.acm.org

... An lomega Jaz drive was configured as the **boot disk** for the machine in the laboratory ... by assigning problems such as the rebuilding of the kernel on the Java **disk** system ... Due to concerns by Auburn's Engineering **Network** Services group regarding students having root access to ...

Cited by 14 - [Related articles](#) - [All 3 versions](#)

### [PDF] An architectural overview of QNX

D Hildebrand - 1992 - cseweb.ucsd.edu

... The embedded system could also **boot** from the LAN, further reducing its ROM require- ... For **disk** I/O, QNX was substantially faster than SVR4. ... In the **network** case, the QNX Net process and its **drivers** deliver very nearly the entire cable bandwidth to the application, even with only ...

Cited by 257 - [Related articles](#) - [View as HTML](#) - [All 32 versions](#)

### Method and system for determining and displaying the topology of a storage array **network** hav multiple hosts and computer readable medium for generating the ...

RA DeKoning - US Patent 6,671,776, 2003 - Google Patents

... It will be appreciated that the topology of a **network** may includes more than four hosts, two controllers and one cluster and the present invention is not limited to the ... This may be useful if volume 'Bob' is a **boot disk** for one of the two hosts, but is not the **boot** device for the other. ...

Cited by 53 - [Related articles](#) - [All 2 versions](#)

### Firmware interfacing with **network** protocol offload engines to provide fast **network** booting, sy: repurposing, system provisioning, system manageability, and ...

GD Goud... - US Patent App. 10/672,012, 2003 - Google Patents

... an enhanced IDE ("EIDE") hard **disk**, a redundant array of independent disks ("RAID"), a small

computer system inter- face ("SCSI") hard **disk**, and the ... [0018] **Boot** server 135 is coupled to communication link 125 to send data blocks to processing system 100 via **network** 140 ...

[Cited by 1](#) - [Related articles](#) - [All 4 versions](#)

### Method for non-volatile caching of **network** and CD-ROM file accesses using a cache directory pointers, file name conversion, a local hard **disk**, and separate small ...

B Berliner - US Patent 5,806,085, 1998 - Google Patents

... The present invention has been incorporated in Sun's PC-CacheFS **network** and CD-ROM caching product. ... a non-volatile caching system for rotating magnetic media such as a hard **disk** drive and ... that cached data is retained even in the event of system shut-down and re-**boot**. ...

[Cited by 16](#) - [Related articles](#) - [All 2 versions](#)

### Automatic error recovery in data processing systems

RI Knox... - US Patent 5,978,911, 1999 - Google Patents

... By running 40 it will **boot** from its local **disk** drive, or can ... against an error 344) to be either powered on by the client user or alterna- occurring during the installation of other device **drivers**, in lively woken-up by the server at some later time, particular the **network** device **driver**(s ...

[Cited by 31](#) - [Related articles](#) - [All 2 versions](#)

### 'Do-it-yourself'databases and the Local Area **Network**

JM Ashby - TechTrends, 1990 - Springer

... Page 3. knowledgable dealer can be a great asset in start- ing your LAN. Each user's **boot disk** also must have user soft- ware installed. The **network drivers** require more than 100K of memory, so any application software that we use must be able to run in a 512K com- puter. ...

### Remotely controlled failsafe **boot** mechanism and manager for a **network** device

DC Simionescu... - US Patent App. 20,030/ ..., 2002 - freepatentsonline.com

... 20040172551, First response computer **virus** blocking. ... and one or more devices connected to the extension bus (eg, a mass storage device such as hard **disk** drive 218 ... 220 is connectable to the host computer 210 through the extension bus 216 and governs the **boot** process of ...

[Cached](#)

### Automated node installation procedure

M Weber - Campus-Wide Information Systems, 1993 - emeraldinsight.com

... We routinely reinstall the sites to cut down on **virus** damage and to keep the sys- tems as clean as possible, and many times the **network** ... When a node is down hard because of a of a **disk** crash, or if the **network drivers** are inaccessible, a customized **boot** diskette allows ...

[All 5 versions](#)

### Scanning initial CD-ROM sectors for a **boot** record and executing said **boot** record to load and execute floppy **disk** image corresponding to the existing floppy drive

KB Vander Kamp, RW Hensley... - US Patent 5,418,918, 1995 - Google Patents

... descriptor terminator. The floppy **disk boot** images are contained at the end of the primary volume space and incorporated in the pri- mary volume space, not external to the primary volume space as in the ISO standard. **Boot** code ...

[Cited by 72](#) - [Related articles](#) - [All 2 versions](#)

### Server based configuration of **network** computers via machine classes

CJ Paul, SM French, AP Jennery, GE Brew... - US Patent ..., 2002 - Google Patents

... 0 Diskette drive EI Serial device 0 Parallel device HIDE hard **disk** Q SCSI hard **disk** Hardware | 1 1 1 ... I\* i 1 Mouse rn\_D.flu IPS/2 Mouse Jft Identity LU KUM SCSI adapter **Network** adapter ... E | Hardware r Remote **boot** metho r P eripherals Video | @002.2 RIPL O i DHCP **boot** User ...

[Cited by 69](#) - [Related articles](#) - [All 3 versions](#)

### Method and system for installing an operating system

JT LeVasseur... - US Patent App. 09/773,761, 2001 - Google Patents

... wherein the created file system partition includes a **network** device **driver** for access- ing a **network** device from which the second operating system is to be installed. 27. The apparatus of claim 21 including means for **boot**- ing the computer system from a RAM **disk** that provides ...

[All 4 versions](#)

### **[PDF]** [USING RT-LINUX FOR DEVELOPING REAL-TIME EMBEDDED SYSTEMS \(\\*\)](#)

P Mendoza, J Vila, S Terrasa... - IFAC Conference on ..., 2001 - trecom.upv.es

... When using the Flash file system configuration, the **boot** device only provides the Linux kernel. 2.2. - Linux customizations. - ... Before being configured, the target system is booted using a floppy initialization diskette that includes the **network drivers** and Flash **disk drivers**. ...

[Cited by 3](#) - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

### [Linux on A PC: A Viable Real-Time Graphics Workstation](#)

CA Fenrich, MG Campbell... - The Interservice/Industry Training, ..., 1999 - NTSA

... After loading the OS from the CD, Linux can be added to the **boot** sector of the PC or a Linux **boot disk** can be created to use when the system is turned on. ... These accelerated **network drivers** are expected to be included with XFree86 in the summer 1999 release. ...

[Cited by 1](#) - [Related articles](#)

### [Method and apparatus for providing diagnosis of a processor without an operating system \*\*boot\*\*](#)

DJ Eckardt... - US Patent App. 09/469,249, 1999 - Google Patents

... The modem **driver** code is then used to establish the **network** connection. ... [0011] FIG. 8 is a flowchart showing steps to permit booting of a diagnostic operation, in spite of corruption of the **boot disk** of the processor, in accordance with the present invention. ...

[Cited by 15](#) - [Related articles](#) - [All 4 versions](#)

### [Method for automatically configuring \*\*network\*\* interface card and capable of randomizing a mec access controller address of the \*\*network\*\* interface card](#)

GW GIFFORD... - US Patent App. 09/366,108, 1999 - Google Patents

... of NICs may be performed by inserting a portable medium such as a floppy **disk** in a ... to detect and identify NICs installed in computers connected to the server via a **network** connection ... 8,2002 Sheet 2 of 4 US 2002/0108002 A1 f START ] LOAD DOS FROM **BOOT** -202 LOAD AND ...

[Cited by 7](#) - [Related articles](#) - [All 3 versions](#)

### **[CITATION]** [Open \*\*boot\*\* firmware](#)

M Bradley - USENIX Conference Proceedings, 1992

[Cited by 3](#) - [Related articles](#)

### **[CITATION]** [Installing Linux via NFS](#)

G Hankins - Linux Journal, 1995 - portal.acm.org

... Once you've decided on your **boot** and root-install **disk**, you need to format two floppies and copy one image onto each of them. ... Make sure that you are actually plugged into a **network**. Then, insert the **boot** floppy and power up your machine. ...

### **[PDF]** [FreeBSD and the IBM PC BIOS](#)

BM Simpson - 2002 - Citeseer

... file for some settings of its own, eg forcing a cdrom based installation to **boot** without waiting ... The loader is also able to communicate with the UNDI **network drivers** on machines supporting the ... in Teletype Mode 12h 88h Base Memory Size 13h 08h Read **Disk** Drive Parameters ...

[Related articles](#) - [View as HTML](#) - [All 4 versions](#)

### **[HTML]** [Stealth, Polymorphism and Other Strange Words](#)

L Miller - CHIPS Magazine, 1994 - chips.navy.mil

... After the initial transfer to the **boot** record, viruses have a number of opportunities to infect the ...

To avoid detection by antiviral scanners, the viral code that resides on the **disk**, usually appended or ... d probably say...Show me a person who was devastated by a computer **virus**, and I ...

[Cited by 1](#) - [Related articles](#) - [Cached](#)

### RAID-II: A high-bandwidth **network** file server

AL Drapeau, KW Shirriff, JH Hartman... - ... the 21st Annual ..., 2002 - [ieeexplore.ieee.org](#)

... Because a RAID has a very large storage capacity, a standard UNIX-style consistency check on **boot** would be unacceptably ... We are also experimenting with prefetching techniques so small sequential reads can also benefit from overlapping **disk** and **network** operations. ...

[Cited by 52](#) - [Related articles](#) - [BL Direct](#) - [All 10 versions](#)

### [PDF] The Microsoft Interactive TV System: An Experience Report

MB Jones - Submitted for publication, 1996 - [Citeseer](#)

... Miniport **drivers** used include a DEC PCI Ethernet card, the Intel EtherExpress Pro, the Intel ... for set-top box management functions such as user login and soft power down / warm **boot**. ... Tiger efficiently balances user load against limited **disk**, **network** and I/O bus resources. ...

[Cited by 26](#) - [Related articles](#) - [View as HTML](#) - [All 9 versions](#)

### Pushing capabilities into firmware by an operating system

MA Rothman... - US Patent App. 10/748,458, 2003 - [Google Patents](#)

... In one embodiment, the pre-**boot driver** is provided to the OS from a storage device such as an optical **disk**. In another embodi- ment, the pre-**boot driver** is downloaded to the computer system from a **network**, such as the Internet. ...

[Cited by 1](#) - [Related articles](#) - [All 4 versions](#)

### Method and apparatus for execution of an application during computer pre-**boot** operation and **boot** under normal OS control

LK Gharda, J Chen... - US Patent 6,564,318, 2003 - [Google Patents](#)

... This POST code is no longer needed after **boot**. In ... library. Examples of add-in programs may include but are not limited to **virus** protection programs, **disk** utility programs, **network** card scanning programs, and so on. VROM ...

[Cited by 19](#) - [Related articles](#) - [All 2 versions](#)

### Storage volume handling system which utilizes **disk** images

BB Han, JF Kateley, C Murphy... - US Patent ..., 1999 - [Google Patents](#)

... 2. In this particular arrangement, the first two blocks in the volume are known as its **boot** blocks, and ... **disk** drive 22, a SCSI CD-ROM drive 24, and an IDE hard **disk** drive 26 ... to other remotely located physical devices (not shown), for example by means of a communication **network**. ...

[Cited by 40](#) - [Related articles](#) - [All 2 versions](#)

### Genetic Algorithm Optimisation

UD Computing - ... on Industrial and Engineering Applications of ..., 2002 - [books.google.com](#)

... On completion of the required number of generations, the files in the central area are updated. Each drone PC has a customised **boot disk** containing the correct **network** card **drivers**, and the name of the drone account to use to login to the server. ...

[Related articles](#)

### [PDF] A user-mode port of the Linux kernel

J Dike - Proceedings of the 2000 Linux Showcase ..., 2000 - [dforeman.cs.binghamton.edu](#)

... When user-mode Linux is started, the normal ker- nel **boot**-up messages are written to its ... run named in a virtual machine and set that machine to be the **network's** name server ... isolation is to allocate machine resources, whether they be CPU time, memory, or **disk** space, between ...

[Cited by 279](#) - [Related articles](#) - [View as HTML](#) - [All 8 versions](#)

### Method for automatically configuring devices including a **network** adapter without manual



intervention and without prior configuration information

DS Richman, M Lichtman, MR Enstrom... - US Patent ..., 1997 - Google Patents

... CONFIGURE REMAINING DEVICES REQUIRED FOR **BOOT** POST .66 **BOOT** 68 IDENTIFY DEVICE **DRIVERS** FOR ... IPX 412 407 \ CARD1 407 400 PROTOCOLS 403 NDIS WRAPPER DLL / 402 ,402 **NETWORK NETWORK NETWORK DRIVER DRIVERS DRIVER** • I \ CARD 2 ...

Cited by 249 - Related articles - All 4 versions

Computer operating system using compressed ROM image in RAM

CJ Esfahani, PM Resch, R Hochsprung... - US Patent App. 10/ ..., 2002 - Google Patents

... code for performing diagnostics, generating a **boot** beep and an error beep; [0035] Open Firmware code; [0036] hardware-specific Mac OS **drivers** ("ndrv's") that are needed at **boot** time (**drivers** needed at **boot** time, eg, video **drivers**, **network drivers**, or **disk drivers**, are loaded ...

Cited by 49 - Related articles - All 4 versions

[PDF] The tiger video fileserverWJ Bolosky, JS Barrera, RP Draves... - ... Workshop on **Network** ..., 1996 - Citeseer... copying or inspection of the data, but rather simply has the **network** device **driver** DMA directly ... to the memory buffer, and then once again traveling from memory to the **network** device. ... 2940W SCSI controllers, one controller having two of the data disks and the **boot disk**, and the ...

Cited by 195 - Related articles - View as HTML - All 17 versions

[PDF] The application of wireless local area **network** technology to the control of mobile robots

AFT Winfield... - Microprocessors and Microsystems, 2000 - Citeseer

... Assuming that we are running MS-DOS, then the **boot** up process requires that the executable files associated with MS-DOS ... 386SX CPU card running at 25 MHz, with 4 MB RAM and an 80 MB solid-state **disk** drive ... Consider the OSI 7-layer **network** reference model shown in Fig ...

Cited by 72 - Related articles - View as HTML - All 8 versions

Method and apparatus for hibernation within a distributed data processing system

GC Matthews, D Medina... - US Patent 6,101,601, 2000 - Google Patents

... input or output device and the application program must transfer its data to the operating system which controls the device **drivers**. ... In such a case, each **network** computer (NC) is booted from a remote **boot disk** or other device located elsewhere on the **network**, such as on ...

Cited by 54 - Related articles - All 2 versions

Providing a pre-**boot driver** for use during operating system runtime of a computer system

VJ Zimmer... - US Patent App. 10/713,999, 2003 - Google Patents

... Only Memory), various persistent storage devices (eg, hard disks, CD-ROM (Compact **Disk**-Read Only Memory), etc.), and from one or more computer systems over a computer **network**. ... 1 illustrates an embodiment of the present invention to provide a pre-**boot driver** for use ...

Cited by 5 - Related articles - All 4 versions

Composite drive controller including composite **disk driver** for supporting composite drive access and a pass-through **driver** for supporting accesses to stand-alone ...

CS Jones... - US Patent 5,548,783, 1996 - Google Patents

... This is a particular problem for fileserver systems since they often require many **network** interface cards and/or ... Upon **boot** and initialization of the host computer 104, AHA device **driver** 108 and composite device **driver** 110 detect the presence of the **disk** array controller 102 ...

Cited by 39 - Related articles - All 2 versions

Method, apparatus and computer program product for debugging a computer's **boot** process

TP Marsland - US Patent 6,289,448, 2001 - Google Patents

... the computer 100 and to load a primary bootstrap program from a designated primary **boot** device using ... **driver** that can be used by the CPU 103 to access data on the **disk** storage unit ... The **network** interface 121 contains a FCode **network** device **driver** ROM 131 that contains a ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

### [PDF] Use of UNIX in large online processor farms

JR Biel - American Institute of Physics Conference Proceedings, 1990 - iss.fnal.gov

... The result was an implementation of standard **network** mechanisms over the VME bus between ACP/R3000 ... Thus, for example, NFS **disk** references could then be made between processors over VME. ... here was to allow an entire crate of ACP/R3000 modules to **boot** UNIX from ...

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [All 8 versions](#)

### Remotely controlled boot manager

K Hubacher, D Sposato... - US Patent 6,539,473, 2003 - Google Patents

... commonly used Remote IPL protocols are a Novell NCP (NetWare Core Protocol), and **BOOT-P**, an ... The loading device is another com- puter that has a hard **disk** and is called the ... requires a special Read Only Memory (ROM) installed on its (Local Area **Network**) LAN adapter or

[Cited by 24](#) - [Related articles](#) - [All 2 versions](#)

### The Flux OSKit: A substrate for kernel and language research

B Ford, G Back, G Benson, J Lepreau... - ACM SIGOPS ..., 1997 - portal.acm.org

... will call it with any arguments and environment variables passed by the **boot** loader ... components from different sources and USC them together-in this case, Linux **network drivers** with BSD ... 3.8 File Systems To complete our picture, the OSKit incorporates standard **disk**- based file ...

[Cited by 320](#) - [Related articles](#) - [BL Direct](#) - [All 12 versions](#)

### Bootable redundant hard disk attached to a PC's parallel port with rom-address auto-detect and configure during BIOS scan

LL Jones, S Mambakkam... - US Patent 5,905,888, 1999 - Google Patents

... ROM INITIALIZE CALL VIDEO BIOS TO DISPLAY TO USER "PRESS SPACEBAR TO **BOOT** FROM PARALLEL ... include external **disk** drives, tape drives, CD-ROM drives, and local-area **network** adapters. ... These disks do not mirror the writes to the PC's internal hard **disk** and thus ...

[Cited by 24](#) - [Related articles](#) - [All 2 versions](#)

### System and method for tracing device drivers using a computer

TP Marsland - US Patent 6,047,124, 2000 - Google Patents

... 4, 2000 Sheet 2 of 6 44 \_\_ SNOOP "7\ ^ s '-', r^ 30 45 ^ X2KJ FILTER TO **NETWORK** IF **BOOT**/ CONFIG 39 ^33 -l--n/-32 38 PROCESS ^31 /35 Z-Ur-- TRUSS 11 USER MEMORY SPACE KERNAL MEMORY SPACE 14 **DISK** DEVICE **DRIVER** FILE SYSTEM 41 TO SCSI IF ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

### Malware scanning using a boot with a non-installed operating system and download of malware detection files

CJ Blamires, SN Reed... - US Patent App. 10/620,364, 2003 - Google Patents

... copy of malware detection files including **virus** definition data (a DAT file), a **virus** detection engine ... to ensure that all computers within the **network** have performed the required clean **boot** operation or ... a read only memory 206, a **network** interface card 208, a hard **disk** drive 210 ...

[All 2 versions](#)

### MMLite: a highly componentized system architecture

J Helander... - Proceedings of the 8th ACM SIGOPS ..., 1998 - portal.acm.org

... In one configuration on the x86 we used minimal floppy and **disk drivers** that called BIOS (ROM) functions to do the work. ... Namespaces" A simple **boot** namespace where applications register objects. ... The protocols operate the **network drivers** through another interface. ...

[Cited by 89](#) - [Related articles](#) - [All 15 versions](#)

### Diskless computer

CD Haigh, AD Dorundo, CA Heath... - US Patent App. 09/ ..., 2001 - Google Patents

... thereon, and wherein each diskless computer is configured such that upon **boot** up, the ... is loaded, and wherein said operating system includes **drivers** for directing **disk** access requests to ... of claim 13 wherein said diskless computers communicate over a **network**, and wherein ...

[All 2 versions](#)

### [PDF] Virtual Machines & VMware, Part I

J Munro - Retrieved March, 2001 - atlas.binus.ac.id

... displayed in the Window title bar and elsewhere • Automatic saving of configuration changes • **Network** Address Translation to make it easy to connect to the Internet or other TCP/IP **network** using the ... Another way is to download a **boot disk** image from [www.bootdisk.com](http://www.bootdisk.com). ...

[Cited by 7](#) - [Related articles](#) - [View as HTML](#) - [All 2 versions](#)

### The performance of a supercomputer built with commodity components

Y Deng... - Parallel Computing, 2001 - Elsevier

... Given the limited choice of the Gigabit **network** interface cards with Linux **drivers** and excessive ... New compute nodes are installed by booting them from a custom **boot disk** that formats ... Compute nodes run a customized version of the kernel with enlarged **network** device buffers ...

[Cited by 17](#) - [Related articles](#) - [All 4 versions](#)

### Chassis for a multiple computer system

IC Hwang... - US Patent 5,577,205, 1996 - Google Patents

... 19, 1996 Sheet 6 of 7 ^MICROPROCESSOR 8042 HARD **DISK** CONTROLLER FIG ... Art The concept of interconnecting a plurality of computers to create one interactive **network** for small ... from unprotected media storage devices which also raises the possibility of **virus** contami- 55 ...

[Cited by 82](#) - [Related articles](#) - [All 4 versions](#)

### Method and apparatus for execution of an application during computer pre-**boot** operation

LK Gharda... - US Patent 6,560,702, 2003 - Google Patents

... Booting) 64KB Empty (After Booting) 109 111 Device Shadowed to VGA C0000-C7FFF SCSI C8000-DFFFFF **Network** C8000-DFFFFF ... BIOS directs **Boot** operations, typically from a designated **Boot** device, such as a connected hard **disk** drive, and after **Boot** BIOS routines ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

### System and method for saving and/or restoring system state information over a **network**

VJ Zimmer, MA Rothman... - US Patent App. 10/404,508, 2003 - Google Patents

... Preboot execution environment ("PXE") refers to an Intel™ Wired for Management capability that enables an IBM™-compatible computer, typically running Win- dows™, to **boot**-up from a server over a **network**, without the need for an internal hard **disk** or **boot** diskette. ...

[Cited by 3](#) - [Related articles](#) - [All 4 versions](#)

### Installable file system for client in a computer **network**

J Kubik, MJ Sullivan... - US Patent 6,519,633, 2003 - Google Patents

... client 45 may have a hard **disk** or other permanent store, and thus need a file system or **driver** for accessing this media. It would not be desirable to add file systems or **drivers** to the OS package of code that is loaded over the **network** to all of the clients as they **boot** up, because ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

### Apparatus for automatically retrieving and installing device **drivers** across a **network**

FA Hoyt III - US Patent App. 20,020/166,045, 2002 - freepatentsonline.com

... invention, the installation mechanism is configured to install the current **driver** following a **boot** cycle of ... includes, but is not limited to, magnetic and optical storage devices such as **disk** drives, magnetic ... computer system 108 that is coupled to a server 112 across a **network** 111 in ...

[Cached](#)

### Component testing with a client system in an integrated test environment **network**

TD Logan... - US Patent 6,510,402, 2003 - Google Patents

... FIG. 1 illustrates a preferred logical local area **network** (LAN) diagram in accordance with these aspects of the present invention. ... It should be appreciated that the use of partitions in the ITE client 206 may result in the need to use a **boot disk** to **boot** the ITE client 206. ...

Cited by 16 - Related articles - All 2 versions

### Method for the hot add of a **network** adapter on a system including a statically loaded adapter driver

WA Wallach, M Khalili, M Mahalingam... - US Patent ..., 2001 - Google Patents

... ADD OF A **NETWORK** ADAPTER ON A SYSTEM INCLUDING A STATICALLY LOADED ADAPTER **DRIVER** (75) Inventors ... to replace failed components, upgrade outdated components, and add new functionality, such as new **network** interfaces, **disk** interface adapters ...

Cited by 8 - Related articles - All 2 versions

### [BOOK] Linux **Network** Servers: Craig Hunt Linux Library

C Hunt - 2002 - books.google.com

... 37 Configuring an Ethernet Interface . . . . 37 Loadable Ethernet **Drivers** . . . .  
38 The ifconfig Command . . . . 523 **Network** Information . . . . 525 Selecting an  
Installation Method . . . . 526 Making a **Boot Disk** . . . .

Cited by 7 - Related articles - Library Search - All 2 versions

### [CITATION] Imagestream IS Gateway and Rebel Routers

J Valesh - Linux Journal, 2000 - portal.acm.org

... The file format ImageStream uses to set up the **network** interfaces is unique but very easy to ... a 40MB SanDisk flash ROM device) but loads the active files into a 16MB RAM **disk** and runs ... This imposes limitations similar to systems that **boot** from a CD-ROM drive: you can make ...

### Node booting method in high-speed parallel computer

JK Lee, HJ Kim, SH Yoon... - US Patent 6,138,234, 2000 - Google Patents

... DUART n/ini Ov/OI -fB DUART SCSI 94- / \ -- v^ 1 Console Terminal **Boot Disk** i Local disk 1  
.JL 11 **Boot** Node FIG. 2 (eXcent **Network**) Non-**Boot** Node -12 13- 17 14- Inter-Node  
Communication y^ -i ^N 1^16 i Inter- Node Communication 1 Console L' **Driver** Function Calls ...

Cited by 10 - Related articles - All 2 versions

### Selective loading of client operating system in a computer **network**

J Kubik, MJ Sullivan... - US Patent 6,611,915, 2003 - Google Patents

... In any event loading all of the classes which are not used or rarely used occupies RAM memory in a client 55 system not having a local hard **disk** and thus not capable of swapping. In addition, loading all of the classes of JavaOS at **boot**-up of a client uses **network** bandwidth ...

Cited by 11 - Related articles - All 2 versions

### Pilot: An operating system for a personal computer

DD Redell, YK Dalal, TR Horsley... - ... of the ACM, 1980 - portal.acm.org

... transfers; extra "advice- taking" operations like Space.Kill can eliminate the extra **disk** transfers in ... Pilot provides software **drivers** for a variety of networks; a given machine may connect directly to ... Pilot clients identify one another by means of **network** addresses when they wish to ...

Cited by 171 - Related articles - All 36 versions

### Multi-server fault tolerance using in-band signalling

AC Ekrot, JH Singer, JM Hemphill... - US Patent ..., 1997 - Google Patents

... according to the invention includes a primary server executing **network** operating system ... FOR  
KEYBOARD RESPONSE KEYBOARD RESPONSE RECEIVED 418 420 NON-SYSTEM **DISK**  
HIT ANY ... ESTABLISH SERIAL LINK; HIT X KEY TO SWITCH NOW AND **BOOT** 434 DID ...

Cited by 114 - Related articles - All 4 versions

### ... CONFIGURING **NETWORK** INTERFACE CARD AND CAPABLE OF RANDOMIZING A ME ACCESS CONTROLLER ADDRESS OF THE **NETWORK** INTERFACE ...

NGW Gordon Jr... - US Patent App. 20,020/ ..., 1999 - freepatentsonline.com

... Control then proceeds to step 242 where the **boot** process continues until log in to the ... connected via a local microprocessor bus, and the mass storage device 335 , **network** interface card ... Mass storage device 335 , which is typically implemented with a magnetic **disk** drive or an ...

[Cached](#)

### **[CITATION] A Guide to Microsoft Windows NT Server 4.0**

MJ Palmer - 1998 - Course Technology Ptr

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### Helping Macintosh refugees into a Windows world

T Roberson... - Proceedings of the 27th annual ACM ..., 1999 - portal.acm.org

... with the CD-**Boot Disk** and a simple in-house program, we could automatically **boot** and clone ... With this method, users may download software, updated **virus** signature files, and more. ... If certain folders on the hard **disk** are frequently accessed, users will also benefit from desktop ...

[Related articles](#) - [BL Direct](#) - [All 2 versions](#)

### Generic operating system usage in a remote initial program load environment

LF Davis Jr, JL Magnuson... - US Patent 6,334,149, 2001 - Google Patents

... For the RIPL function to be operational on a **network**, the **network** must have a RIPL server and ... has a floppy drive, it requires all of the low-level data normally contained on a floppy **disk**. ... The **Boot** ROM obtains this information from a modified **boot** image file created on the server ...

[Cited by 25](#) - [Related articles](#) - [All 2 versions](#)

### **[CITATION] McSe Windows 2000 Server: Exam 70-215**

N Knight - 2000 - Coriolis Group

### System and method for device parameter persistence

AH Haswarey, FR DiMambro... - US Patent App. 10/ ..., 2003 - Google Patents

... System firmware (eg, an Open **Boot** PROM (OBP)) may operate a suitable **driver** (eg, an FCode **driver**) to initialize a device (eg, **disk** controller, **network** interface card) capable of establishing a communication link with the source. ...

[Cited by 1](#) - [Related articles](#) - [All 4 versions](#)

### **[PDF] An explicit binding model for runtime extensible operating systems**

M Clarke... - Lecture Notes in Computer Science, 1999 - Citeseer

... 3.4 The DEIMOS Core The DEIMOS core (see figure 2) is an activated **boot** archive which consists of a bootstrap sequence, the CM, a default loader, optional **disk** and **network drivers**, a set of wrapper objects and an initial user object (IUO). ...

[Cited by 3](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 6 versions](#)

### Self configuring terminal which polls loop **network** and generates list of connected devices for selectively downloading control programs

DR Hughes... - US Patent 5,109,484, 1992 - Google Patents

... devices and to download its Suffice it to say the controller supplies **disk** services and ... coupled through loop communi- The self-configuration process is automatic and cations **network** 14 and ... interconnects controller 10 to a file section of the operating system called "**Boot** Load Im ...

[Cited by 67](#) - [Related articles](#) - [All 2 versions](#)

### Modernising the ESRF control system with GNU/Linux

A Gotz, A Homs, B Regad, M Perez... - Arxiv preprint cs/ ..., 2001 - arxiv.org

... The ESRF has bought a commercial product called REMBO (for REMote **BOot**). ... CPU , net- work card) and therefore will have the same base image (same operating system, **network drivers**,

etc.). ... In case of failure (crash of the hard **disk**) the tool will be able to rebuild the whole ...


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### Disk operating system backup and recovery system

JK McGill III, D Abele, LL Colman... - US Patent ..., 1995 - Google Patents

... For instance, for IBM OS/2 v. 1.2, 1.3x the **recovery** diskette set is actually made up of two **recovery** diskettes, one bootable **disk** containing a copy of the original OS/2 **boot**/install distribution **disk** files and some system configuration files, and the other diskette containing all ...

[Cited by 133](#) - [Related articles](#) - [All 2 versions](#)

### Transparent, secure computer virus detection method and apparatus

CA Miller, Y Dhareashwar, EG Heller... - US Patent ..., 1996 - Google Patents

... COMPUTE HASH CODES FOR SYSTEM FILE BACKUPS 636 / 640 > **RECOVERY DISK SWAP** FILES ... ITEMS 748 CLOSE WRITE PROTECT BIT IN NVRAM 750 **BOOT** 752 ... 5,537,540 30  
TRANSPARENT, SECURE COMPUTER **VIRUS** DETECTION METHOD AND APPARATUS ...

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### Recovery method for a high availability data processing system

RN Taylor - US Patent 5,615,330, 1997 - Google Patents

... only from said second processing unit, and said shared disks are accessible from both said first data processing unit and said second data process- ing unit; (d) means for temporarily reconfiguring the system, upon failure of said second **boot disk**, into a **recovery** con- figuration ...

[Cited by 15](#) - [Related articles](#) - [All 2 versions](#)

### Automatic recovery for network appliances

D Kikinis - US Patent 5,708,776, 1998 - Google Patents

... 2 is a block diagram illustrating a method to create initiates reboot from the second **boot** partition thereby an automatic **recovery** system by means of uniquely parti- placing me network appliance back in service without tioning the recording space of hard **disk** 41 (FIG. ...

[Cited by 103](#) - [Related articles](#) - [All 2 versions](#)

### Data processing virus protection circuitry including a permanent memory for storing a redundant partition table

S Chang - US Patent 5,367,682, 1994 - Google Patents

... Since the ^ effect even without {he actual nce of a **boot** sector and partition table are the first items of data 30 ^ Nonetheless these occasionally redundant in- many **boot** up of a **disk** resident system, a **virus** in that . . . location is visually without any defense. ...

[Cited by 33](#) - [Related articles](#) - [All 2 versions](#)

### Peripheral device interface for dynamically selecting boot disk device driver

TM Rimmer... - US Patent 5,430,845, 1995 - Google Patents

... [ii] Patent Number: [45] Date of Patent: 5,430,845 Jul. 4, 1995 [54] PERIPHERAL DEVICE INTERFACE FOR DYNAMICALLY SELECTING **BOOT DISK** DEVICE DRIVER [75] Inventors: Todd M. Rimmer, Frazer; William P. Jordan, Ephrata, both of Pa. ...

[Cited by 100](#) - [Related articles](#) - [All 3 versions](#)

**[BOOK] Incident response: computer forensics toolkit**

D Schweitzer... - 2003 - computer-forensics-lab.org

... Creating a Windows Real-Mode **Boot Disk** Creating a Linux **Boot Disk** Using Packet ... **Recovery**  
 Planning Developing a Disaster **Recovery** Plan Sample Contingency Disaster **Recovery** Plan  
 Electronic ... Isolate the System and Notify Appropriate Staff Contain the **Virus**, Worm, or ...

Cited by 21 - Related articles - View as HTML - Library Search - All 4 versions

**Method and system for failsafe recovery and upgrade of an embedded operating system**

RM VanRooven... - US Patent 6,591,376, 2003 - Google Patents

... OF AN EMBEDDED OPERATING SYSTEM TECHNICAL FIELD The present invention relates to embedded operating systems and, in particular, to a method and system, for upgrade and **recovery** of an ... US 6,591,376 BI partition /**boot** is employed as a **disk**-based ROM ...

Cited by 43 - Related articles - All 2 versions

**Neural networks for computer virus recognition**

GJ Tesauro, JO Kephart... - IEEE expert, 1996 - ieeeexplore.ieee.org

... We have developed a neural network for generic detection of a particular class of computer viruses-the so-called **boot** sec- tor viruses that infect the **boot** sector of a floppy **disk** or a hard drive. This is an im- portant and relatively tractable subproblem of generic **virus** detection. ...

Cited by 81 - Related articles - All 2 versions

**Recovery of in-core disk data**

DE Lutz... - US Patent 5,291,600, 1994 - Google Patents

... tion is made to set up an in-core **disk** including a data 45 Upon a NO determination, this **boot** process exits to a **recovery** mechanism, in accordance with the present conventional or routine **boot** 84 as is known hi the art. invention. ...

Cited by 17 - Related articles - All 2 versions

**Hardware acceleration of boot-up utilizing a non-volatile disk cache**

DC Stewart - US Patent App. 09/417,000, 1999 - Google Patents

... According to one embodiment of the invention, a **boot** program stored on a **boot disk** is cached in a nonvolatile memory, and retrieved by the system from the cache during the **boot** sequence instead of from the **boot disk**, thereby increasing the speed of access to the **boot** ...

Cited by 28 - Related articles - All 4 versions

**Boot code verification and recovery**

M Aguilar, S Gupta... - US Patent 6,272,628, 2001 - Google Patents

... in which the first storage medium is a compact flash card, the method permits local **recovery** of a computer that does not have a hard drive or other **disk** based storage medium. A second application of the invention contemplates a method of creating a **boot** code image in which ...

Cited by 29 - Related articles - All 2 versions

**Disk drive which provides a secure boot of a host computer system from a protected area of a**

CW Frank Jr... - US Patent 6,546,489, 2003 - Google Patents

... Aside from **virus** attacks, it is possible that inadvertent corruption of **disk** data can prevent a proper **boot** of the computer system. This can be caused by user mistakes or by rogue applications which fail to abide by conventions or operating system safeguards. ...

Cited by 13 - Related articles - All 2 versions

**Automatic recovery of a corrupted boot image in a data processing system**

M Aguilar, YC Lo, RE Millican Jr... - US Patent 6,625,754, 2003 - Google Patents

... to place the operating system in an With reference again to step 608, if a **recovery** file is ... US 6,625,754 BI 10 15 9. The method of claim 8, wherein the **boot** code is located in a ... 1, wherein the local storage device is one of a nonvolatile random access memory, a hard **disk** drive, a ...

Cited by 25 - Related articles - All 2 versions



Method and structure for securing access to a computer system

BW Watson... - US Patent 5,475,839, 1995 - Google Patents

... 1 PC •EXPANSION BUS POWER-ON BIOS MOTHERBOARD DIAGNOSTICS BIOS SYSTEM RAM TEST BIOS HARDWARE INITIALIZATION BIOS ROM SCAN 1 t BIOS ROM SCAN i **DISK BOOT** T DOS **VIRUS** CHECK FIG. 2 Page 4. US Patent 5,475,839 Dec. ...

[Cited by 89](#) - [Related articles](#) - [All 2 versions](#)

Mirrored extensions to a multiple **disk** storage system

CC McCormbs - US Patent App. 10/205,680, 2002 - Google Patents

... 4 412 NORMAL MODE 408 L \_ t Y \*. BACK UP **DISK** -\* A \*- **VIRUS** ATTACK OR ... DISKO DISK1 **DISK** 2 DISKS **DISK** 4 430 , y > \* A \* OPERATIONAL **BOOT** SYSTEM 428 ... The present invention pertains generally to **disk** storage systems and specifically to **disk** storage systems ...

[Cited by 4](#) - [Related articles](#) - [All 4 versions](#)

Process for automatically migrating a subset of updated files from the **boot disk** to the replicate disks

K Sathi, RA Ippolito, CR Enzien... - US Patent ..., 1993 - Google Patents

... 26, 1993 [54] PROCESS FOR AUTOMATICALLY MIGRATING A SUBSET OF UPDATED FILES FROM THE **BOOT DISK** TO THE REPLICATED DISKS [75] Inventors: Kitty Sathi, Pittsford; Ronald A. Ippolito, Rochester; Colleen R. Enzien, Penfield; Christopher Comparetta ...

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A METHOD AND APPARATUS FOR RESTORING DATA DAMAGED BY A COMPUTER **VIRU** ON A MAGNETIC INFORMATOIN RECORDING **DISK** IN A HARD **DISK** ...

H Nam - US Patent App. 09/219,519, 1998 - Google Patents

... recited technique for restoring data damaged by a **virus** in a hard **disk** drive in ... 5,432,927 to Grote et al, entitled Fail-Safe EEPROM Based Rewritable **Boot** System, US Pat ... 5,367,682 to Chang, entitled Data Processing **Virus** Protection Circuitry Including A Permanent Memory For ...

[Cited by 4](#) - [Related articles](#) - [All 4 versions](#)

Method and apparatus for creating alternate **boot** environments in a computer

WL Hutchinson, GL Boggs, DN Brinkman... - US Patent ..., 1999 - Google Patents

... Further, performing a **recovery** overwrites the previous system con- tents. ... Copying at least one software compo- 45 nent from a first **disk** location to an alternate **boot** environ- ment and updating this software component. ...

[Cited by 70](#) - [Related articles](#) - [All 2 versions](#)

Method for implementing data backup and **recovery** in computer hard **disk**

J Hu, G Bai, P Zhang... - US Patent App. 10/392,547, 2003 - Google Patents

... Although this is a good technique, destruction of data by **virus** and some operation errors cannot be ... conventional operating system and installed in the ATA-5 hidden area of the hard **disk**. When BIOS determines to **boot** the inserted operating system, it directly reads the kernel of ...

[Cited by 4](#) - [Related articles](#) - [All 4 versions](#)

Computer method and apparatus to force **boot** block **recovery**

DR James Jr, RL Hess... - US Patent 6,363,492, 2002 - Google Patents

... The **boot** block traditionally contains the initialization routines for a floppy **disk** and a keyboard ... determines that the flash ROM is corrupt and proceeds to execute the **boot** block code. ... ROM's checksum value does equal the checksum amount by chance, if a **virus** infected image ...

[Cited by 11](#) - [Related articles](#) - [All 2 versions](#)

Data processing system and method for automatic **recovery** from an unsuccessful **boot**

DC Cromer, I Karpel, HJ Locker... - US Patent 6,421,792, 2002 - Google Patents

... and method responsive to an unsuccessful **boot** of the system for utiliz- ing a **recovery** copy of the ... The BIOS is code that controls basic hardware operations, such as interactions with **disk** drives,

hard drives ... When a computer is reset or initially powered-on, a **boot** process begins. ...

[Cited by 20](#) - [Related articles](#) - [All 2 versions](#)

### System for automatic **recovery** from software problems that cause computer failure

J Yen · US Patent 6,381,694, 2002 · [Google Patents](#)

... An alternate type of fix might be to **boot** from a different **disk**, and notify the user. If such fixes can be implemented, it is not necessary to **boot** from the minimal operating system stored ... In the case of a **virus**, for example, the **recovery** system can implement a correction by detecting ...

[Cited by 39](#) - [Related articles](#) - [All 4 versions](#)

### 'OMNICONF--Making OS Upgrades and **Disk Crash Recovery** Easier

I Hideyo · LISA VIII Proceedings, 1994 · [usenix.org](#)

... For example, can you correctly install a **boot** block by hand when BSD/386 is in the second FDISK partition of an PC-AT compatible machine? ... The benefit of the stored configuration is more dramatic with **disk crash recovery**. ...

[Cited by 7](#) - [Related articles](#) - [All 4 versions](#)

### [PDF] **Disk Maintenance under Linux (Disk Recovery)**

DA Bandel · Linux Journal, January, 1997 · [homeworks.it](#)

... The -b switch will be passed through LILO to init and will cause an emergency **boot** that does not run any of the startup scripts. ... fsck--The File System Checker Page 3. **Disk Maintenance under Linux (Disk Recovery)** <http://www.linuxjournal.com/node/193/print> 3 of 8 ...

[Cited by 2](#) - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

### Scanning initial CD-ROM sectors for a **boot** record and executing said **boot** record to load and execute floppy **disk** image corresponding to the existing floppy drive

KB Vander Kamp, RW Hensley... · US Patent 5,418,918, 1995 · [Google Patents](#)

... descriptor terminator. The floppy **disk boot** images are contained at the end of the primary volume space and incorporated in the primary volume space, not external to the primary volume space as in the ISO standard. **Boot** code ...

[Cited by 72](#) - [Related articles](#) - [All 2 versions](#)

### Reimplementing the Cedar file system using logging and group commit

R Hagmann · Proceedings of the eleventh ACM Symposium on ..., 1987 · [portal.acm.org](#)

... are written to the file name table are during entry into a new third and during crash **recovery**. ... of the log is entered, after the pages in the to-be-overwritten third are written to **disk**. ... the log is detected by reading a header page pair and checking log record numbers, **boot** count, end ...

[Cited by 199](#) - [Related articles](#) - [Library Search](#) - [All 41 versions](#)

### Remembrance of data passed: A study of **disk** sanitization practices

SL Garfinkel... · Security & Privacy, IEEE, 2003 · [ieeexplore.ieee.org](#)

... Level 3 data can be recovered using advanced data **recovery** tools that can "unformat" a **disk** drive or special-purpose forensics ... Because overwriting an operating system's **boot disk** information typically causes the computer to crash, **disk** sanitizers rarely operate on the **boot** ...

[Cited by 91](#) - [Related articles](#) - [BL Direct](#) - [All 10 versions](#)

### [HTML] **Stealth, Polymorphism and Other Strange Words**

L Miller · CHIPS Magazine, 1994 · [chips.navy.mil](#)

... After the initial transfer to the **boot** record, viruses have a number of opportunities to infect the system. ... While this may sound silly to some, the **virus** checker must be installed before a **virus** attack. ... If you think a 40 megabyte hard **disk** is small, wait until you have to load everything ...

[Cited by 1](#) - [Related articles](#) - [Cached](#)

### [BOOK] **Boot disk** management: a guide for the Solaris operating environment

JS Howard... · 2002 · [books.google.com](#)

Enhance system reliability with reference configurations Effectively use Solstice DiskSuite" or VERITAS Volume Manager to manage your **boot disk** Speed system **recovery** »oot **Disk** Management Guide for the Solaris Derating Environment ^Sun Official Sun Microsystems ...  
[Cited by 1](#) - [Related articles](#) - [Library Search](#) - [All 3 versions](#)

### Data processing system and method for permitting a server to remotely initiate a client's **boot b recovery**

DC Cromer, BJ Ellison, ER Kern, H Locker... - US Patent ..., 2001 - Google Patents  
 ... together utilizing a network for permitting the server to remotely initiate a **boot** block **recovery** from a ... The BIOS is code that controls basic hardware operations, such as interactions with **disk** drives, hard ... When a computer is reset or initially powered-on, a **boot** process begins. ...  
[Cited by 17](#) - [Related articles](#) - [All 2 versions](#)

### System for computer **recovery** using removable high capacity media

GR Meyer, TM Thomas, TT Davidson... - US Patent ..., 2001 - Google Patents  
 ... In the event of a failure or error, the user runs the **recovery** software from the hard **disk** or the floppy **recovery disk** to **boot** the system and to attempt to correct the cause of the failure. 65 A problem with conventional **recovery** utilities ...  
[Cited by 38](#) - [Related articles](#) - [All 6 versions](#)

### Autonomous **boot** failure detection and **recovery**

JM Cagle, DJ Zink... - US Patent App. 10/184,140, 2002 - Google Patents  
 ... 22, 2004 AUTONOMOUS **BOOT** FAILURE DETECTION AND **RECOVERY** BACKGROUND OF THE INVENTION [0001] 1 ... 22, 2004 standard **boot** order list and no successful **boot** has occurred, the server ... A message such as "No System **Disk**" or the like is displayed and user ...  
[Cited by 6](#) - [Related articles](#) - [All 4 versions](#)

### Storing a computer **disk** image within an imaged partition

RM Jenevein, HS Kramer, DS Shadel... - US Patent ..., 2003 - Google Patents  
 ... The system data 102 also includes operating system data such as partition tables and **boot** code ... copies the user data 104 to a backup medium 106, such as a ZIP **disk** (mark of ... they require that the operating system and file system software be reinstalled prior to system **recovery**. ...  
[Cited by 69](#) - [Related articles](#) - [All 2 versions](#)

### Local area network and network operating system for formatting a client **disk** and installing a cli operating system

PR Shuff - US Patent 5,758,165, 1998 - Google Patents  
 ... contain and (ft formats the **disk**' are to ^ use(\* w^ a seconc'< client-oriented operating ' system, (ii) copies onto the **disk** the **boot** record and the hidden and regular files that the operating system to be run on SUMMARY OF THE INVENTION the PC requires on its **boot disk** (eg for ...  
[Cited by 88](#) - [Related articles](#) - [All 2 versions](#)

### Automatic error **recovery** in data processing systems

RI Knox... - US Patent 5,978,911, 1999 - Google Patents  
 ... of 4 POWER-ON & POST|^3QO BROADCAST RESPOND WITH **BOOT** IMAGE -304 ... WATCHDOG TIMER VALUE & BEGIN DECREMENTING -316 FORMAT DOS **DISK** FORMAT FORMAT ... 5,978,911 1 2 AUTOMATIC ERROR **RECOVERY** IN DATA therein software for installation ...  
[Cited by 31](#) - [Related articles](#) - [All 2 versions](#)

### Computer infectors:: Prevention, detection, and **recovery**

JJ Ellis... - Information & Management, 1992 - Elsevier  
 ... Several different types of **virus** exist [ 19,22]: (1) A **boot** infector moves the DOS programs from the **boot**' sector (usually the first sector on a **disk**) and takes control when the system first starts; (2) A system infector attaches itself to or replaces selected memoryresident ...  
[Related articles](#)

### [HTML] Solaris Bare-Metal **Recovery** from a Specialized CD-ROM and Your Enterprise Backup Solution

WC Preston - Proceedings of the Fifteenth Systems Administration ..., 2001 - userix.org  
... time. The rebuilding of a computer system that has lost its capability to **boot** is known as a bare-metal **recovery**. The system will need to be built starting from a bare **disk** drive up to a bootable and functioning operating system. ...

[Related articles](#) - [Cached](#) - [All 8 versions](#)

### [CITATION] **Recovery** of Fixed **Disk** Systems on Personal Computers

C Chengying - JOURNAL OF ANSHAN INSTITUTE OF IRON AND ..., 1996 - en.cnki.com.cn  
... Engineering). In this article, through the analysis of the partition method of the fixed **disk** system, the author introduced an algorithm for the **recovery** of the fixed **disk** system on personal computers running MS-DOS. **【Key Words】** : fixed **disk** partition table master **boot** record **boot** ...

[Cached](#)

### Reliable and secure updating and **recovery** of firmware from a mass storage device

DA Boals, DB Demming... - US Patent App. 10/274,759, 2002 - Google Patents  
... it is not possible to assume the crisis **recovery** files would be on the hard **disk** drive ... intellectual property that must be licensed if code to access it is contained in the **Boot** Block ... system of the main operating system also exposes them to malicious software (such as a **virus**) that may ...

[All 4 versions](#)

### [CITATION] Hard **Disk** Management System

Q Ying - Microcomputer Development, 1993 - en.cnki.com.cn  
... 3, Hu Wei; To dissect the **Boot Virus**[J]; Journal of Huangshan University; 2004-03. ...  
12, Weinan, Sha'anxi); Analysis and Cleaning of the Visual Code B **Virus**[J]; Computer ... Administration Office, Lanzhou University, Lanzhou, 730000); Data Protection for Microcomputer **Disk** System[ ...

[Cached](#)

### Solaris Bare-Metal **Recovery** from a Specialized CD and Your Enterprise Backup Solution

L Amatangelo... - ... of the 15th USENIX conference on ..., 2001 - portal.acm.org  
... The rebuilding of a computer system that has lost its capability to **boot** is known as a bare-metal **recovery**. The system will need to be built starting from a bare **disk** drive up to a bootable and functioning operating system. Not until the release of Solaris 8 did the Solaris operating ...

[Related articles](#) - [All 2 versions](#)

### Protection and **recovery** system for automatic hard **disk** drive (HDD) **recovery**

D Shoam - US Patent App. 10/637,566, 2003 - Google Patents  
... Any anti-**virus** software and any **virus** protection in BIOS is disabled prior to ... and a **recovery** software module, said **recovery** software module storing software loaded during a **boot** operation.  
8. The apparatus according to claim 4, wherein said hard **disk** drive is partitioned into a ...

[All 4 versions](#)

### BITS: a smartcard protected operating system

PC Clark... - Communications of the ACM, 1994 - portal.acm.org  
... BITS is not a **virus** checker; however, for those tiles whose checksums are stored on the smartcard, it is possible to detect the modification of the tile on the host system. ... Because of the mode in which BITS is used, it is often compared with a **boot** from a floppy **disk**. ...

[Cited by 74](#) - [Related articles](#) - [Library Search](#) - [BL Direct](#) - [All 4 versions](#)

### Image backup and NT **boot** floppy disaster **recovery**

M Edwards - ... Technology Review[COMPUT TECHNOL REV], 54, 56 ..., 1997 - csa.com  
... part is the disaster **recovery** portion. UltraBac for Windows NT is both a file-by-file and **disk** image backup program that allows both methods of backups during a backup session. This report describes how UltraBac makes use of image technology with NT **boot** floppy disaster ...

[Cited by 1](#) - [Related articles](#)

**[CITATION] Discussion of The Software Faults' Correction of High Disk's Major Boot Sector**

HUA Xiao-peng - Journal of Yancheng Institute of Technology ( ... , 2003 - en.cnki.com.cn

... At first, this paper analyzes the structure and function of high **disk's** Major **Boot** Sector (MBS). Then three ... **【Key Words】** : High **Disk** MBS Software ... 1, Cui Song (Chengdu Medical College, Sichuan Chengdu, 610081); The Design and Realization of a Data **Recovery** System Based on ...

[Cached](#)

**Method and apparatus for unix system catastrophic recovery aid**

CP Guster... - US Patent 6,490,690, 2002 - Google Patents

... every block of data back onto its **disk** of origin, even if attached **disk** arrays stretch ... a network in which a preferred embodiment of the present catastrophic **recovery** aid system ... In the depicted example, server 104 provides data, such as **boot** files, operating system images, and ...

[Cited by 16](#) - [Related articles](#) - [All 2 versions](#)

**[CITATION] Boot disk optimizer**

P Joe - 1991 - Apr

[Cited by 2](#) - [Related articles](#)

**Method and system for detecting computer viruses during power on self test**

SL Merkin... - US Patent 5,509,120, 1996 - Google Patents

... 2/1994 Jones 380/23 5,311,591 5/1994 Fischer 380/4 5,313,639 5/1994 Chao 395/725 5,319,776 6/1994 Hile et al 395/575 5,349,655 9/1994 Mann 395/575 OTHER PUBLICATIONS Edward Wilding, Fixed **disk boot** sectors and post-attack **recovery**, Jul. 1991, **Virus** Bulletin (JP ...

[Cited by 31](#) - [Related articles](#) - [All 2 versions](#)

**[PDF] Operating Environments: Solaris™ 8 Operating Environment Installation and Boot Disk Layout**

R Elling - 2000 - Citeseer

... Solaris™ 8 Operating Environment Installation and **Boot Disk** Layout By Richard Elling - Enterprise Engineering ... 8 Operating Environment Installation and **Boot Disk** Layout The Solaris™ Operating Environment Version 8 does not fit on a single compact **disk** (CD). ...

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**Computer imaging recovery without a working partition or a secondary medium**

JR Gaunt... - US Patent App. 10/449,728, 2003 - Google Patents

... A main partition of the **disk** is non-working due to loss of partition table data, MBR corruption, **virus** damage, FDISK ... computer to make it capable to read the image from the container and deploy the image onto the **disk** outside the container when a **recovery boot** is requested ...

[Cited by 5](#) - [Related articles](#) - [All 4 versions](#)

**[PDF] Modern Methods of Detecting and Eradicating Known and Unknown Viruses**

D Mostovoy - 1995 - vx.netlax.org

... Integrity checker stores images of uninfected **boot** sectors in its tables and in case of damage can instantly ... in order to prevent the active **virus** from reinjecting infection while accessing the **disk** via INT ... Consequently, a knowledge as to which **virus** infected the file is not mandatory ...

[Related articles](#) - [View as HTML](#) - [All 5 versions](#)

**Method and system of operating system recovery**

LC Chen... - US Patent App. 10/438,416, 2003 - Google Patents

... 6. The system of operating system **recovery** as claimed in claim 5 wherein the hard **disk** further includes a master **boot** record containing a master **boot** program, and wherein the master **boot** program is used to check a value of the flag and execute the **recovery** system in the ...

[All 2 versions](#)

### **[BOOK] Malicious mobile code: Virus protection for Windows**

RA Grimes - 2001 - books.google.com

... This section contains **virus** structure models, the world's smallest (32- byte) **virus**, and basics of protection that can be applied to all malicious code. ... It's becoming less and less common to see **boot-** and file-infecting viruses. Learn about Office 2000's new antivirus features. ...

[Cited by 67](#) - [Related articles](#) - [Library Search](#) - [All 5 versions](#)

### **[CITATION] Automated Boot Disk Fail Over-Winter discusses two types of boot disk configurati (using Veritas Volume Manager and Solstice DiskSuite), the relative ...**

G Winter - SysAdmin, 1999 - Lawrence, KS: R & D Publications, ...

### **Better safe than sorry**

SM Zimmerman, W Beatty - Computers & Industrial Engineering, 1992 - Elsevier

... 1. Do not exchange program disks except when absolutely necessary. 2. Do not **boot** hard **disk** systems from a floppy, unless the floppy is a minitor diskette. ... Shield A **virus** shield stops a **virus** before it gets into your system. **Virus** shields are not perfect. ...

[BL Direct](#) - [All 4 versions](#)

### **Remote bootstrapping a node over communication link by initially requesting remote storage ac program which emulates local disk to load other programs**

JE Flaherty... - US Patent 5,146,568, 1992 - Google Patents

... program which a **disk** on another computer as a virtual **disk**. This virtual instructs the CPU where on a **disk** to find a larger **boot disk** acts as if it were a **disk** on the user's computer, program, which is termed the "boot-block" program. ...

[Cited by 68](#) - [Related articles](#) - [All 4 versions](#)

### **Anti-virus agent for use with databases and mail servers**

CH Chen... - US Patent 5,832,208, 1998 - Google Patents

... Accordingly, **boot** 65 sector viruses overwrite the **disk's** original **boot** sector with its own code so that the **virus** is always loaded into memory before anything else. Once in memory, the **virus** can make the startup **disk** unusable or can spread to other disks. ...

[Cited by 175](#) - [Related articles](#) - [All 5 versions](#)

### **Redundant array of disks with improved storage and recovery speed**

T Matsumoto, H Baba, K Itoh... - US Patent 5,701,406, 1997 - Google Patents

... [54] REDUNDANT ARRAY OF DISKS WITH IMPROVED STORAGE AND **RECOVERY** SPEED  
[75 ... Check information can be stored on a solid- state **disk**. ... Sheet 8 of 15 COPY FIG.8 ,12 USAGE  
STATUS TABLE 10 ^-»~^u> ^^^^ u\*1- ^^ s ua ^ ^^ ^ ^ 1K **BOOT** •BYTE' RECORD ...

[Cited by 44](#) - [Related articles](#) - [All 4 versions](#)

### **System for protecting computers via intelligent tokens or smart cards**

PC Clark - US Patent 5,448,045, 1995 - Google Patents

... viral infection. Since reading from and writing that when the **boot** sequence of instructions is initiated, to a **disk** is a function performed by the OS kernel, it the **virus** code is loaded into the computer's memory. Because execution ...

[Cited by 102](#) - [Related articles](#) - [All 5 versions](#)

### **Norman virus control for Windows NT**

G Held - International Journal of Network Management, 1998 - interscience.wiley.com

... The Book on Viruses provides a general introduction to methods you can use to prevent viruses from infecting an organization, how anti-**virus** programs operate, instructions for the creation of a **boot disk** for use when removing a **virus**, and instructions concerning steps to ...

[BL Direct](#) - [All 3 versions](#)

### Using **Virus** Protection Software Backing Up Your System

AL Porter... - Computer, 1998 - farmingdale.edu

... A **boot** sector **virus** infects the **boot** program used to start the system. When the infected **boot** program executes, the **virus** is loaded into the computer's memory. Once a **virus** is in memory, it can spread to any floppy **disk** inserted into the computer. ...

[Related articles](#) - [View as HTML](#)

### [CITATION] Combating Viruses on Microcomputers and LANs

K Nelson - Information Security Journal: A Global Perspective, 1995 - Taylor & Francis

### [PS] CIS106: Introduction to Computing (part B)

M Korda - 2000 - homepages.gold.ac.uk

... It will infect a discovered le. On or after October 13th, a message is displayed and the **virus** formats heads 0-8, track 0 of the hard **disk**. This destroys partition table, FAT's and **boot** sec- tors. 2 variants. Cascade: Shows letters on the screen detaching and falling. 1988. ...

[Related articles](#) - [View as HTML](#) - All 10 versions

### Device and method for data **recovery** in a file system

GJ Lee... - US Patent 5,974,426, 1999 - Google Patents

... for redun- dant storage of an effective **boot** sequence routine while an updated **boot** sequence routine ... and with the nonvolatile memory being coupled to unfortunately may only provide partial **recovery** of the ... The method also includes the step of stored in an affected **disk** sector. ...

[Cited by 26](#) - [Related articles](#) - All 2 versions

### [TXT] ROMFS-ROM FILE SYSTEM

J Farkas - 2001 - cs.ucl.ac.uk

... For example, a distribution **boot disk** can contain only the cd **disk** drivers (and ... Another use would be for a **recovery disk**, when you are reinstalling a workstation from the network, and you will have all the tools/modules available from a nearby server, so you don't want to ...

[Cited by 2](#) - [Related articles](#) - [Cached](#)

### Gold code backup for corrupt **boot** code **recovery**

JG Goodwin, YM Ku, JS Langford... - US Patent 6,473,856, 2002 - Google Patents

... US 6,473,856 B1 10 GOLD CODE BACKUP FOR CORRUPT **BOOT** CODE **RECOVERY**  
BACKGROUND 1. Field of the Present Invention The ... The update portion of the **boot** code might, for example, be responsible for retrieving an operating system from **disk** and loading it into ...

[Cited by 9](#) - [Related articles](#) - All 2 versions

### Method and apparatus for protecting a computer system from computer viruses

PH Lin - US Patent 5,511,184, 1996 - Google Patents

... typically affect a computer 45 system by replacing the **boot** program with a **virus** program at **boot** time to ... If the computer system 100 is booted from a booting 50 device that is infected with a **virus** (such as when an infected floppy diskette is inserted into a floppy **disk** drive), the ...

[Cited by 40](#) - [Related articles](#) - All 3 versions

### Computer failure **recovery** and alert system

DM Burckhardt, LD Perez, TF Emerson... - US Patent ..., 1997 - Google Patents

... PARAMETERS ON SERIAL PORT 106 ENABLE PAGER /•110 PROVIDE PAGER NUMBER & MESSAGE PAGER TEST •114 BATTEN DED\ N **RECOVERY**. ... 21,1997 Sheet 12 of 14 FLOPPY **BOOT** ENABLED 9 302 FLOPPY \ Y BOOTABLE 9 HARD **DISK** BOOTABLE 9 TRY ...

[Cited by 99](#) - [Related articles](#) - All 7 versions

### [CITATION] Reproducing **boot-disk** filesystems

P Velleca - Sys Admin, 1994 - portal.acm.org

... Digital Library logo Take a look at the new version of this page: [ beta version ]. Tell us what you

think. Reproducing **boot-disk** filesystems. Source, Sys Admin archive Volume 3 , Issue 1 (Jan./Feb. 1994) table of contents. Pages: 71 - 78. Year of Publication: 1994. ISSN:1061-2688 ...

#### [CITATION] Automated **boot disk** fail over

G Winter - Sys Admin, 1999 - portal.acm.org

... Automated **boot disk** fail over. Source, Sys Admin archive Volume 8 , Issue 11 (November 1999) table of contents. Pages: 14 - 26. Year of Publication: 1999. ISSN:1061-2688. Author, George Winter, Publisher, Miller Freeman, Inc. San Francisco, CA, USA. ...

#### [CITATION] User-to-User-Making a **boot disk** for DoubleSpace or Stacker users; useful undocumented commands in DOS 6. x; a bug in the ALTPAUSE. SYS driver

NJR King - PC Magazine-Boulder, 1994 - [New York, NY: PC Communications ...

#### Data processing system and method for creating a virtual partition within an existing partition in hard **disk** drive

CB Gould, D Rhoades, WL Robinson... - US Patent ..., 2002 - Google Patents

... in virtual partition I •512 Store master **boot** record for **recovery** purposes Rewrite ... and run associated files Complete specified tasks Restore original master **boot** record ( Stop ... A VIRTUAL PARTITION WITHIN AN EXISTING PARTITION IN A HARD **DISK** DRIVE BACKGROUND OF ...

Cited by 9 - Related articles - All 2 versions

#### Method and apparatus for automated **disk** drive upgrades

WJ Beyda, S Shaffer - US Patent 6,012,130, 2000 - Google Patents

... executed. At this point, the user is presented with an option 30 of maintaining the pre-existing **disk** drive as the primary **boot** drive (eg, the c: drive), and use the upgrade **disk** as a secondary/slave **disk** drive (eg, the d: drive). If ...

Cited by 61 - Related articles - All 2 versions

#### System and method to enable a legacy BIOS system to **boot** from a **disk** that includes EFI GP<sup>+</sup> partitions

JF Larvoire - US Patent App. 10/186,689, 2002 - Google Patents

... which may execute a standard **recovery** mechanism. If the system loads successfully, then the system is up and running. [0059] As noted above, FIG. 5 illustrates an exemplary **boot** method for legacy BIOS based systems. However, regarding the MBR+GPT hybrid **disk** 300, a ...

Cited by 4 - Related articles - All 4 versions

#### [PDF] A distributed approach against computer viruses inspired by the immune system

T Okamoto, Y Ishida - IEICE Transactions on Communications, 2000 - Citeseer

... of detecting the stealth viruses only scan a memory for the "signa- ture." Even if a scanning software detects it in memory, the computer must be rebooted to repair it under clean **boot** using clean floppy **disk**. File **recovery** in general is a common problem to all anti-**virus** systems. ...

Cited by 15 - Related articles - BL Direct - All 8 versions

#### System using the storage level of file updates in nonvolatile memory to trigger saving of RAM to **disk** and using the file updates to reboot after crash

RJ Slomcenski, AM Federico, RA Ippolito... - US Patent ..., 1993 - Google Patents

... 6 Page 10. US Patent 5,241,672 Aug. 31, 1993 Sheet 9 of 9 READ CURRENT'VAT' FROM **BOOT DISK** TO SYS. MEMORY FIG. ... Referring also to FIGS. 5-7, on booting of the sys- 35 tem, the current VAT 130-1 on the **boot disk** is read from the **boot disk** into system memory 61. ...

Cited by 24 - Related articles - All 2 versions

#### Ensuring the integrity of remote **boot** client data

AD Barr, MM Swift... - US Patent 6,189,100, 2001 - Google Patents

... Page 6. US Patent Feb. 13, 2001 Sheet 5 of 17 US 6,189,100 BI CLIENT COMPUTER **BOOT** DRIVE Page 7. US Patent Feb. 13,2001 Sheet 6 of 17 US 6,189,100 BI 201



CLIENT COMPUTER 223 **BOOT DISK** Page 8. US Patent Feb. ...

[Cited by 64](#) - [Related articles](#) - [All 2 versions](#)

### Reflex Magnetics Ltd: MailSafe

K Townsend - Network Security, 2000 - Elsevier

... So Reflex developed its own solution: Disknet. Disknet puts a protective ring around a network; providing floppy **disk** authorization and restriction, matrix **virus** scanning, heuristic **virus** detection, **boot** protection and more. The ...

[All 3 versions](#)

### System for writing incremental packet data to create bootable optical medium by writing **boot** catalog and **boot** image onto second track before writing volume ...

G Alexander - US Patent 6,591,363, 2003 - Google Patents

... as a floppy **disk**. For example, to restore data in a disaster **recovery** situation generally requires the user to insert a **boot** floppy **disk** to load an operating system before accessing the optical discs. In addition, installing a custom ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

### Disk based bios

MP Krau... - US Patent 5,864,698, 1999 - Google Patents

... 4 is a block diagram illustrating a typical **boot** sequence of a computer system. ... An important aspect of the invention is that the computer system can be rebooted in the event of a **disk** failure without the need for disaster **recovery** 10 even when the hardware design meets ...

[Cited by 41](#) - [Related articles](#) - [All 2 versions](#)

### Cluster-based system and method of **recovery** from server failures

N Nguyen, M Kosacek - US Patent 6,609,213, 2003 - Google Patents

... Another approach is to troubleshoot and fix the failure in the field. The **recovery** time varies depending on the failure and may take a long time. For example, if the **boot** 5 **disk** fails, the **disk** must be replaced and the OS needs to be reinstalled. ...

[Cited by 107](#) - [Related articles](#) - [All 2 versions](#)

### The application of epidemiology to computer viruses

WH Murray - Computers & Security, 1988 - Elsevier

... The system was shut off for 5 minutes to make certain that the **virus** did not remain in memory. (c) Oe turned on the power and used a special **boot disk** in drive A. (The emergence 01 program is part of a special **boot disk** that is kept in a unit on the right side of the microcomputer ...

[Cited by 44](#) - [Related articles](#) - [All 2 versions](#)

### Restoring method for hard **disk**

CP Li - US Patent 6,192,488, 2001 - Google Patents

... Moreover, the risk of breakdown of hard **disk** is still high because there 10 is still no perfect method for defense the attack of **virus**. ... (4) Determining the mode of operation for manager mode, the hard **disk** can be accessed directly except for the **boot** sector for ordinary user ...

[Cited by 4](#) - [Related articles](#) - [All 2 versions](#)

### Computer system capable of using removable **disk** drive as **boot** device and method of control bootstrap

T Saito - US Patent 6,035,395, 2000 - Google Patents

... For this reason, when the **boot** from the removable **disk** drive such as the CD-ROM drive is performed, it is preferable that **boot** priority order information be automatically rewritten to automatically change a next top-priority **boot** device to another **disk** drive such as a hard **disk** ...

[Cited by 11](#) - [Related articles](#) - [All 2 versions](#)

### Apparatus and method for protecting data on computer hard **disk** and computer readable recor

medium having computer readable programs stored therein

YU Jeon... - US Patent App. 10/473,038, 2003 - Google Patents

... and recovered from damage to a computer system due to infection of a **virus** program, a ... [0049]  
In the manager mode, the hard **disk** protection program provides a menus including "Change **recovery** schedule", "Change password", "Recover immediately", "**Boot** in non ...

[All 4 versions](#)

Recovery ROM for array controllers

R Chawla... - US Patent 6,442,067, 2002 - Google Patents

... 2 shows a block diagram of one of the **disk** array controllers of FIG. 1 including a ROM that, in accordance with the preferred embodiment of the invention, permits **recovery** of the ROM's ... 2 to preferably include a **boot** block sector and two separately flashable image areas; FIG. ...

[Cited by 16](#) - [Related articles](#) - [All 2 versions](#)

Method and apparatus of boot device switching by a floppy disk

TG Kwan... - US Patent 6,158,002, 2000 - Google Patents

... 20 Claims, 5 Drawing Sheets ( Begin ) ^/ Insert floppy **disk** having a **boot** code into floppy **disk** drive of a personal computer (PC) | 252 254 \* Ex scute the **boot** code of the floppy **disk** - \* Find a host adapter "HA" (ie, SCSI host adapter) that is connected to the PC Scan for all "hard ...

[Cited by 11](#) - [Related articles](#) - [All 2 versions](#)

Computer system security device

VG Golding... - US Patent 5,265,163, 1993 - Google Patents

... of a level A password, for exam- ple the level B password would be given to a user to ensure that the user could not contaminate the system with a **virus** held on a diskette. Should the system not **boot** successfully from diskette at 44, **boot** is attempted from the fixed **disk** at 45 thus ...

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Method and apparatus for detecting a computer virus on a computer

H Ellenberger - US Patent 5,684,875, 1997 - Google Patents

... This allows the detection algorithms to directly call the **disk** access functions of the operating system ... and INT 13H respectively, which might later by redirected by a stealth **virus** in order ... C).  
Step 102: Calculate fingerprints of executable code in the partition table and **boot** sector(s) ...

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Internet computer virus protection policy

HJ Wen - Information Management & Computer Security, 1998 - emeraldinsight.com

... sector viruses. viruses. viruses. viruses. A **boot** sector **virus** modifies the **boot** sector and it appears to be the most common **virus**. Every **disk** has a **boot** sector that controls how a computer operates when starting. A **boot** ...

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Reducing operating system start-up/boot time through disk block relocation

K Grimsrud... - US Patent 5,920,896, 1999 - Google Patents

... 6,1999 [54] REDUCING OPERATING SYSTEM START- UP/**BOOT** TIME THROUGH **DISK** BLOCK RELOCATION [75] Inventors: Knut Grimsrud, Aloha; Rick Coulson, Portland, both of Oreg. [73] Assignee: Intel Corporation, Santa Clara, Calif. ...

[Cited by 10](#) - [Related articles](#) - [All 2 versions](#)

[CITATION] Data Protection for Microcomputer Disk System

B Tian - JOURNAL OF LANZHOU UNIVERSITY (NATURAL ...), 1994 - en.cnki.com.cn

... **【Key Words】** : magnetic **disk** data protection **【CateGory Index】** : TP333 ... 8, Huang Yinhu; Wu Ziwen(Department of Computer Science);Analysis,Diagnosis and Cleaning of a **Boot Virus** with Music[J];JOURNAL OF FUJIAN TEACHERS UNIVERSITY(NATURAL SCIENCE);1997-01. ...

[Cached](#)

New operating systems and old viruses\* 1

J Hruska - Computer Fraud &amp; Security Bulletin, 1995 - Elsevier

... The **virus** loads into memory and using BIOS calls attempts to infect either the master **boot** sector or the DOS **boot** sector on the hard **disk**, depending on the **virus** type. In most cases, the **virus** will also try to grab some more space ...

[All 4 versions](#)**Boot** drive selection and hibernation file detection

PH Doragh... - US Patent 5,822,582, 1998 - Google Patents

... 13, 1998 Sheet 2 of 7 POWER ON | 200 BOOTS UP | 204 ^T | Y ^206 FLASH ROM **RECOVERY** 226-^ Y ^HIBERNATION BIT SET 228 ... 13, 1998 Sheet 6 of 7 222 x-300 | RETRIEVE IPL ORDER | POINT TO NEXT IPL DEVICE **BOOT** FROM HARD **DISK** ^304 308 **BOOT** ...

[Cited by 29](#) - [Related articles](#) - [All 4 versions](#)Generic remote **boot** for networked workstations by creating local bootable code image

TK Basu - US Patent 5,452,454, 1995 - Google Patents

... workstation and the re- mote data processing system. 69 Claims, 22 Drawing Sheets  
18 NETWORK TERMINATED **BOOT** FROM LAD IMAGE VMS SERVER =>/ VAX **DISK**  
**DISK** Page 2. US Patent Sep. 19,1995 sheet i of 22 5,452,454 ...

[Cited by 117](#) - [Related articles](#) - [All 4 versions](#)Extended BIOS adapted to establish remote communication for diagnostics and repair

MW Bizzarri - US Patent 5,732,268, 1998 - Google Patents

... connection, there may be a specific node on the LAN called CMOS), and (5) a **virus** infection affecting ... diagnostic and repair site, or there may be and/or data in CMOS or on a hard **disk**. ... the E-BIOS of necessary correction cannot be made from the remote the PC that fails to **boot**. ...

[Cited by 95](#) - [Related articles](#) - [All 2 versions](#)System for reconfiguring a **boot** device by swapping the logical device number of a user selecte **boot** drive to a currently configured **boot** drive

M Christensen - US Patent 6,282,641, 2001 - Google Patents

... These devices include the keyboard, the display, the printer, auxiliary devices such as the serial port, the computer's clock and the **boot disk** device. Part of the BIOS is built into each computer by the computer's manufacturer. ... Page 8. US 6,282,641 BI **boot disk** device. ...

[Cited by 18](#) - [Related articles](#) - [All 2 versions](#)Hard **disk** password lock

PA Dumas... - US Patent 6,199,163, 2001 - Google Patents

... 6,2001 Sheet 3 of 5 US 6,199,163 BI 50 60 READ HARD **DISK** PASSWORD FROM END OF **BOOT** BLOCK READ HARD **DISK** PASSWORD FIELD FROM END OF **BOOT DISK** PROMPT USER FOR HARD **DISK** PASSWORD YES /DISKISNOTN VENCRIPTEDy 56 **DISK** IS ...

[Cited by 18](#) - [Related articles](#) - [All 2 versions](#)Method of and apparatus for computer hard **disk** drive protection and **recovery**

G Ravid - US Patent App. 09/805,705, 2001 - Google Patents

... system for protection of the operating system (OS) and important data on a HDD from **virus** intrusion and ... second HDD B, by simply switching the AB Switch to HDD B and re-**boot** and running ... [0064] Defined in detail, the present invention is an appa- ratus for hard **disk** drive (HDD ...

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